

REMARKS

Status Summary

In this Amendment, claims 3, 14, 22, and 28-30 are canceled. No claims are added. Therefore, upon entry of this Amendment, claims 1, 2, 4-12, 15-20, and 23-27 will be pending.

Claim Objections

Claims 1-11 and 28 were objected as containing informalities. In particular, step (c) in claims 1-3 were objected to as failing to refer to "the intermediate frequency signal" in all occurrences of the signal. The language "the intermediate frequency signal" has been replaced by "the received signal having the intermediate frequency." Since all occurrences refer to the same signal, it is respectfully requested that the objection to claims 1-3 should be withdrawn.

Claim 4 was objected to based on inconsistency between the terms "second multiplier" and "second power multiplier" in steps (c) and (d). Claim (d) has been amended to recite "second multiplier," as to be consistent with step (c). Accordingly, it is respectfully requested that the objection to claim 4 should be withdrawn.

Claims 23-25 were objected to as lacking antecedent basis for the term "the computer program product of claim 22." Appropriate correction has been made to these claims. Accordingly, it is respectfully requested that the objection to claims 23-25 be withdrawn.

Claims 22-25 were objected to as being duplicative of claim 14. Appropriate correction has been made to these claims. Accordingly, it is respectfully requested that the objection to these claims be withdrawn.

Claim Rejections 35 U.S.C. § 112

Claims 1-11 were rejected under 35 U.S.C. § 112, first paragraph as failing to comply with the written description requirement. More particularly, claims 1-3 were rejected because these claims recite that the regulated oscillators module produces the intermediate frequency signal, the frequency multiplier multiplies the frequency of the intermediate frequency signal, and Figure 7 does not indicate that the regulated oscillators module receives the intermediate frequency signal from the regulated oscillators module. Claims 1-3 have been amended to clarify that the output signal from the mixer is “a received signal having the intermediate frequency” to distinguish the signal output from mixer **404** from the intermediate frequency signal output from regulated oscillators module **408A**. As indicated in Figure 9, the output of mixer **404** is also an intermediate frequency signal, like the output from regulated oscillators module **408A**. It is the output of mixer **404** that is input into frequency multiplier **702**. Thus, the embodiment illustrated in Figure 7 includes two intermediate frequency signals -- one output from mixer **404** and the other output from regulated oscillators module **408A**. In claims where both signals appear, appropriate amendments have been made to distinguish between the signals. In other claims where only one of the signals appear, the term “intermediate frequency signal” is utilized to refer to the signal output from the mixer. Accordingly, since the claims have been rewritten to overcome the rejections

under 35 U.S.C. § 112, first paragraph, it is respectfully requested that this rejection be withdrawn.

Allowable Subject Matter

Claims 15-17, 23-25, 29, and 30 were objected to as being dependent upon a rejected base claim, but would allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim and to overcome the claim objections in the Official Action. Claims 14 and 15 have been combined and rewritten as independent claim 15. Claim 16 depends from claim 15. Claims 14 and 17 have been combined and rewritten as claim 17. Original claim 14 has been canceled. Accordingly, claims 15-17 should now be allowed.

Claims 22 and 23 have been combined and rewritten as claim 23. Claim 24 depends from claim 23. Claims 22 and 25 have been combined and rewritten as claim 25. Original claim 22 has been canceled. Accordingly, claims 23-25 should now be allowed.

Claims 12 and 29 have been combined and rewritten as claim 12. Claim 29 has been canceled. Claims 18 and 19 depend from claim 12. Accordingly, claims 12, 18, and 19 should now be allowed.

Claims 20 and 30 have been combined and rewritten as claim 20. Claims 26 and 27 depend from claim 20. Accordingly, claims 20, 26, and 27 should now be allowed.

Claims 2, 4, 7, 8, and 28 were not rejected based on any of the references cited in the Official Action. In a telephone conversation with the Examiner on July 29, 2004, the Examiner indicated that claims 2, 4, 7, and 8 would also be allowable if rewritten to

overcome the rejections under 35 U.S.C. § 112. As indicated above, these claims have been rewritten to overcome the rejections under 35 U.S.C. § 112.

More particularly, claim 2 has been rewritten to overcome the rejections under 35 U.S.C. § 112. Claims 7 and 8 depend from claim 2. Accordingly, claims 2, 7, and 8 should now be allowed. Claims 3 and 4 have been combined and rewritten as claim 4. Original claim 3 has been canceled. Accordingly, claim 4 should now be allowed.

The Examiner indicated that the status of claim 28 was unknown, and that she would obtain the file to determine the status of claim 28. Applicant has not received the status at the time of filing of this amendment. Since claim 28 includes similar elements to claims 29 and 30, which were indicated as allowable, Applicant respectfully submits that claim 28 is allowable. Claims 1 and 28 have been combined and rewritten as claim 1. Claims 5, 6, and 9-11 depend from claim 1. Original claim 28 has been canceled. Accordingly, claims 1, 5, 6, and 9-11 should now be allowed.

Since all of the remaining claims have been rewritten to overcome the objections and the rejections under 35 U.S.C. § 112 and are either allowable or depend from an allowable claim, a Notice of Allowance is respectfully requested.

CONCLUSION

If any small matter should remain outstanding after the Patent Examiner has had an opportunity to review the above Remarks, the Patent Examiner is respectfully requested to telephone the undersigned patent attorney in order to resolve these matters and avoid the issuance of another Official Action.

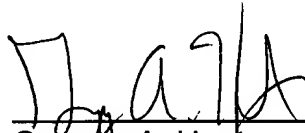
The Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

JENKINS, WILSON & TAYLOR, P.A.

Date: August 3, 2004

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Enclosure